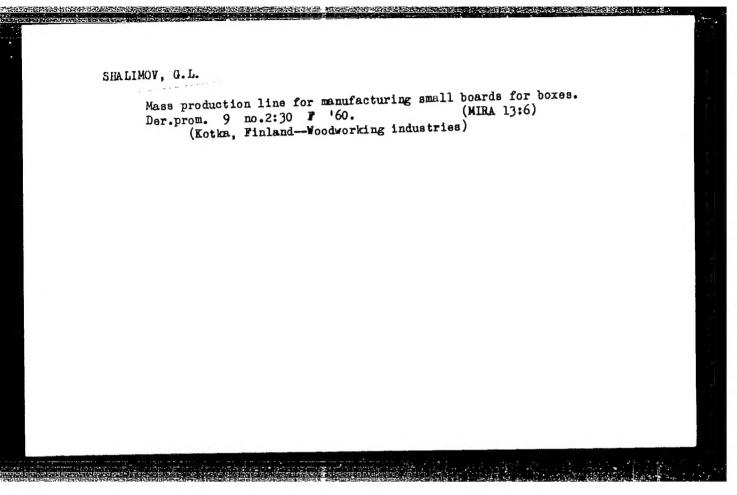
Production line for doors made of boards and filled with curled shavings. Der.prom. 8 no.6:28-29 Je '59.

(Finland--Doors)



SHALIMOV, G.L.

Improving the accuracy of automatic manufacture of parts from small square pieces of wood. Der. prom. 12 no.1:7-8 Ja '63.

(MIRA 16:5)

l. Spetsial'noye konstruktorsko-tekhnologicheskoye byuro po derevoobrabatyvayushchemy mashinostroyeniyu Moskovskogo gorodskogo soveta narodnogo khozyaystva.

(Woodwork)

SHALIMOV, I.

Radio direction finding receiver operating on 144 to 146 mc. Radio no.4:37-38 Ap '61. (MIRA 14:7)

1. Radiostantsiya UA3AEF. (Radio direction finders)

SHALIMOV, I.F.; VADETSKIY, Yu.V.; SAVINA, Z.A., redaktor; POLOSINA, A.S., tekhnicheskiy redaktor

[Use of the turbine drill powered by diesel drive] Praktika turbinnogo bureniia na dizel'nom privode. Moskva, Gos. nauchnotekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1954. 242 p. (Boring machinery)

VODETSKIY, Yuriy Vyacheslavovich; SHALIMOV, Ivan Fedorovich; STRIZHOV, N.I., redaktor; BEXMAN, Yu.K., vedushchiy redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor

EKANTEN SANTAN PARANGAN PERMETENTAN PENGENGAN PENJAN PENGEN PENJAN PENGENAN PENGENAN PENGENAN PENGENAN PENGEN

[Drilling oil and gas wells] Burenie neftianykh i gazovykh skvazhin.

Moskva. Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry.

1956. 418 p.

(Oil well drilling)

Hongwoot, V.1.; inwamenes, I.1., Front room, ..., should v. I.1.

Sometime pendicted by Bourghess during trace signal movements.
Debt. of which 166 no.3:753-756 d. 166. (MRA 19:1)

1. Inarivat modical of Breeze. Submitted March 13, 1965.

TARTAKOVSKIY, Boris Nusimovich; VARSHAVSKIY, Anatoliy Mikhaylovich; SHALIMANOV, Iosif Petrovich; NURMUKHAMEDOVA, V.F., red.izd-va; MAKSIMOVA, V.V., tekhn.red.; LOMILINA, L.N., tekhn.red.

[Mechanization of railroad track relocation in open-pit mines] Mekhanizatsiia peredvizhki zheleznodorozhnykh putei na kar'erakh. Moskva, Gosgortekhizdat, 1963. 183 p. (MIRA 16:10)

(Mine railroads--Track)

SHALIMOV, K.; SHABALOV, V.

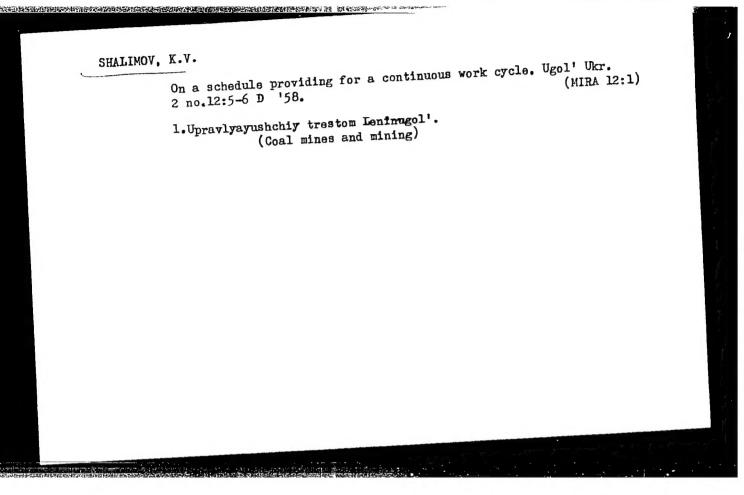
We are working in a new way. Mast.ugl. 6 ac.9:7-8 S '57. (MIRA 10:11)

1. Upravlyayushchiy trestom Leninugol' kombinata Voroshilovgradugol'

1. Upravlyayushchiy trastom Leninugol' kombinata Voroshilovgradugol'

(for Shalimov). 2. Nachal'nik tekhnicheskogo otdela(for Shabalov).

(Goal mines and mining)

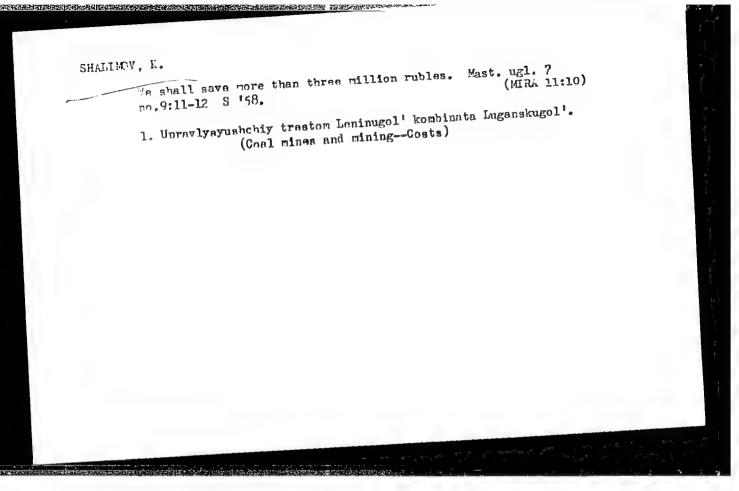


SHALIMOV, K.

Coal niche-cutting saw. Mast.ugl. 7 no.4:18-19 Ap '59. (MIRA 11:4)

1. Upravlyayushchly treatom Leniuugol' kombinata Luganskugol'.

(Coal mines and mining-Equipment and supplies)

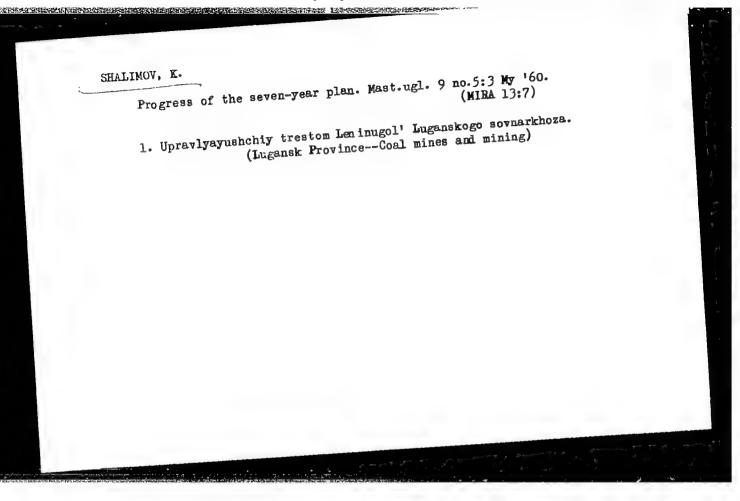


SHALIMOV, K.

MOV, K.

Continuous cycles. Mast.ugl. 8 no.1:3-4 Ja '59. (MIRA 12:3)

1. Upravlyayushchiy trestom Leninugol' Luganskogo sovnarkhoza. (Coal mines and mining)



SHALIMOV, K.V.

Organizing a speedy drifting of hauling entries. Ugol' Ukr. 5
(MIRA 15:1)
no.7:30-31 Jl '61.

1. Upravlyayushchiy trestom Leninugol'.
(Coal mines and mining)

Mining 1051 meter of haulage drift per month. Ugol' Ukr. 6

Mino.5;28-29 My '62.

1. Upravlyayushchiy Leninskim trestom kombinata Kuzbassugol'
Ministerstva ugol'noy promyshlennosti SSSR.
Ministerstva Basin—Coal mines and mining—Labor productivity)

(Kuznetsk Basin—Coal mines and mining—Labor productivity)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548420001-6

POCHENKOV, Ye.; SAPITSKIY, K.; SHALIMOV, M.

Sources of lower cost of coal. Mast.ugl. 3 no.1:18-19 Ja '5".

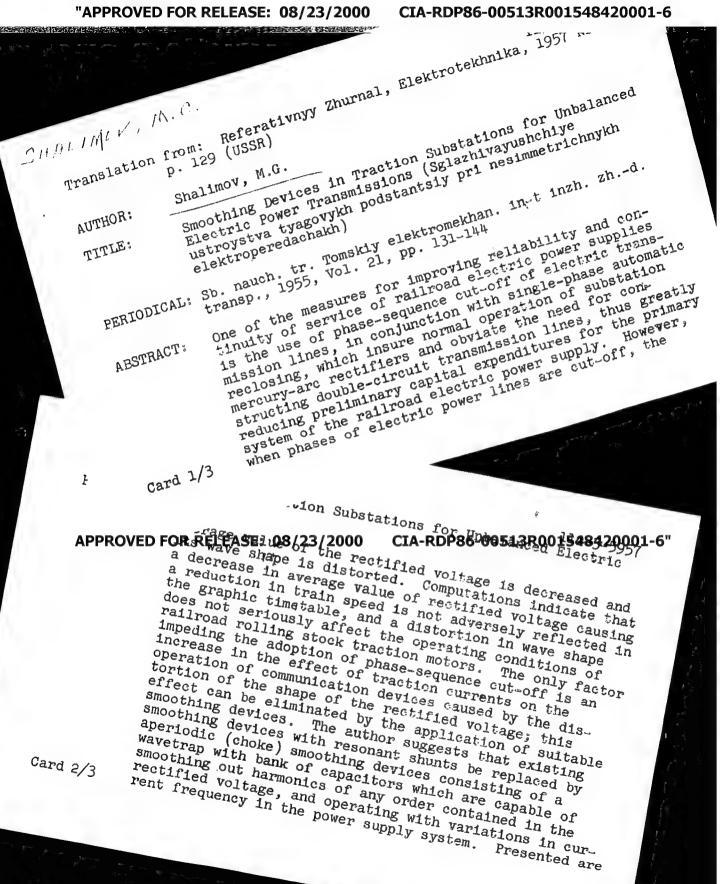
(MIRA 7:1)

(Cosl mines and mining)

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SHALIMOV, Mikhail Georgiyevich, kandidat tekhnicheskikh nauk; NOWITSKIY,
Viktor Mikhaylovich, kandidat tekhnicheskikh nauk; KLIMOV,V.F.,
Viktor Mikhaylovich, kandidat tekhnicheskikh nauk; NOWITSKIY,
Viktor Mikhaylovich, kandidat tekhnicheskikh nauk; KLIMOV,V.F.,
Viktor Mikhaylovich, kandidat tekhnicheskikh nauk; KLIM



Smoothing Devices in Traction Substations for Unbalanced Electric 112-3-5957

an analysis of the properties of the aperiodic smoothing device, computation of the capacitances required for obtaining resonance conditions for the various harmonics, and the most advantageous capacitance of the capacitors.

ASSOCIATION: Tomsk Electro-Mechanical Institute for Railroad L.A.Ch. Engineering (Tomskiy elektromekhan. in-t inzh. zh.-d.

Card 3/3

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548420001-6"

The major is a country of the second of the

SHALIMOV, M.C.; GOLIKOV, Ye.Ye.; PONCMAREV, A.A.

P.A. Azbukin; on his 60th birthday and the 55th anniversary of his theoretical and educational work. Elektrichestvo no.8:92-93 Ag '62. (MIRA 15:7)

(Azbukin, Pavel Andreevich, 1882-)

BENESHEVICH, I.I., kand. tekhn. nauk; OVLASYUK, V.Ya., kand. tekhn. nauk; SUKHOPRUDSKIY, N.D., kand. tekhn. nauk; SHALIMOV, M.C., kand. tekhn. nauk; BANVER, Z.M., insh., retsenzent; KOLISH, L.G., insh., retsenzent; KALININ, V.K., kand. tekhn. nauk, red.; USENKO, L.A., tekhn. red.

[Automation and remote control of the power supply systems of electric railroads] Avtomatizatsiia i teleupravlenie ustroistvami energosnabzheniia elektricheskikh zheleznykh dorog. Moskva, Transzheldorizdat, 1963. 359 p.

(MIRA 16:7)

(Electric railroads—Substations) (Automation)
(Remote control)

BENESHEVICH, I.I., kand. tekhn. nauk; OBLASYUK, V.Ya., kand. tekhn. nauk; SUKHOPRUDSKIY, N.D., kand. tekhn. nauk; SHALLMOV, M.G., kand. tekhn. nauk; BANVER, Z.M., inzh., retsenzent; KOLISH, L.G., inzh., retsenzent; NECHAYEV, N.A., kand. tekhn. nauk, retsenzent; KALININ, V.K., kand. tekhn. nauk, red.; USENKO, L.A., tekhn. red.

[Automation and remote control in the power supply systems of electric railroads] Avtomatizatsiia i teleupravlenie ustrcistvami energosnabzheniin elektricheskikh zheleznykh dorog. stvami energosnabzheniin elektricheskikh zheleznykh dorog. [By] I.I.Beneshevich i dr. Moskva, Transzheldorizdat, 1963. (MIRA 16:9) 359 p. (Electric railroads---Current supply)

DUBROVSKIY, V.P.; YEREMIN, N.Ye.; SHALIMOV, M.G.

Calculation of current nonsymmetry in the elements of an electric power system feeding a single-phase a.c. railroad with commercial power system feeding a Single-phase a.c. railroad with commercial power system feeding a Single-phase a.c. railroad with commercial frequency. Trudy TEIIZHT 35:77-84 '62. (MIRA 16:8) (Electric railroads--Current supply)

DUBROVSKIY, V. P., inzh.; YEREMIN, N. Ye, inzh.; SHALIMOV, M. G., kand. tekhn. nauk, dotsent

Analysis of the operation of a three-phase three-winding transformer in nonsymmetrical operation. Trudy OMIIT 37:91-101 *62. (MIRA 17:5)

BARKOVSKIY, B. S., inzh.; YEREMIN, N. Ye, inzh.; KOZLOV, V. N., inzh.;

NEBOLYUBOV, Yu. Ye, kand.tekhn.nauk, dotsent; SHALIMOV, M. G.,

kand.tekhn.nauk, dotsent

Effect of the traction load on the turbogenerators of electric

power plants supplying single-phase 50 c.p.s. power to electric

power plants supplying single-phase 50 c.p.s. power to railroads. Trudy OMIIT 37:146-150 162.

BERKOVSKIY V.S., inzh.; CSADCHIY, A.N., inzh. Primimali uchastiye: STETSENKO, M.V.; LOJAREV, M.I.; AVLUMIN, P.M.; SHLLIMOV, M.I.; IVANISHKIN, A.Ya.; OVECHKIN, V.I.; POVETKIN, G.I.; SHLVAMEDIN, V.I.

Grooving for the rolling of strip with acute angles. Stal' 23 no.7: 627-631 Jl '63. (MIRA 16:9) (Rolling (Metalwork)) (Rolls (Iron mills))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R001548420001-6"

SHALE N, Mikhail Nikitich; SELEV, M.F., red.

[Alokael Brozhmev, a bulldozer operator] Alokael Brezhmev,
bul'dozerist. Khabarovsk, Khabarovskoe knizhmed i 22-70,
1963. 11 p.

(MIRA 18:3)

SHALIMOV, M.P., red.; TOSS, A.I., tekhn.red.

[Ouide for ships entering Soviet ports in the Ses of Japan and Ses of Okhotski Rhkovodstvo dlie zakhode sudov v sovetskie Ses of Okhotskogo morei. 1957. 110 p. (MIRA 12:11) porty IAponskogo i Okhotskogo morei. 1957. 110 p. (MIRA 12:11)

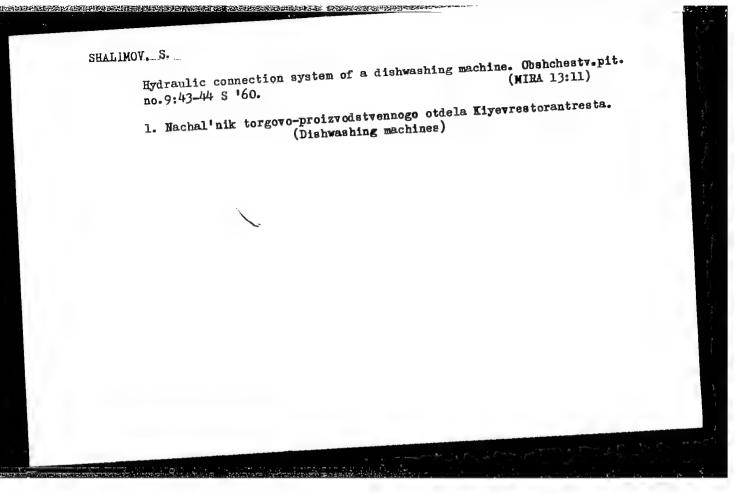
1. Russis (1923- U.S.S.R.) Voyenno-morskog flot. Upravleniye Inika gldrograficheskoy sluzby voyenno-morskogo flotannokul'nika gldrograficheskoy sluzby voyenno-morskoy sluzby voyen

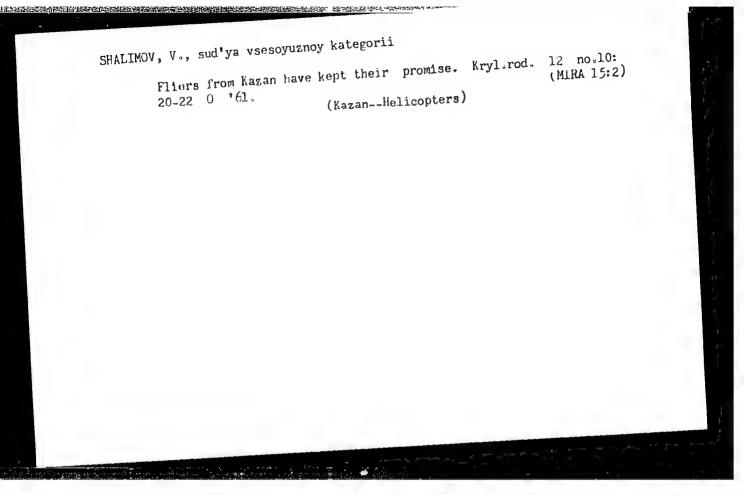
SALMANOV, Aleksandr Semenovich, assistent; SHALIMOV, Sergey Ivanovich, nauchnyy sotrudnik; VEN'YAMINOV, A.N., doktor sel'skokhoz.nauk, red.; GRIGOROVICH, A.T., red.; SERADZSKAYA, P.G., tekhn.red.

[Viticulture] Kul'tura vinograda. Voronezh, Voronezhskoe kmizhnoe izd-vo, 1959. 41 p. (MIRA 14:1)

1. Kafedra sadovodstva Voronezhskogo sel'skokhozyaystvennogo instituta (for Salmanov). 2. Rossoshanskaya plodovo-yagodnaya stantsiya (for Shalimov).

(Viticulture)





USSR/Chemistry, Biology - Theory, Ideology Ideology "The Significance of I. P. Pavlov's Work for Soviet Biochemistry," V. A. Shalimov. Soviet Biochemistry," V. A. Shalimov.	pavlov's work in bio- its significance for nt of Russian biochem- il between dynamic bio- il biochemistry, stating is advocated by the lead- its active interference nits active interference	with physiol processes and mastery over them. Says that Soviet biologists regard metabolism as dependent on reflex activity, which in turn is influenced by the external and int environment of the organism.	SEGITES	
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Chemical Abst.

Chemical Abst.

Vol. 48

Apr. 10, 1954

Biological Chemistry

Chemical Chemistry

Chemical Abst.

A. V. Sosanov and V. A. Shalmmov Jr. No. 5, 60-3 (193)—

Rystan, J. Farmadal, 1 January 1 Labration of the State of the State

SHALIMOV, V.A.

Amount of certain reactive bleed protein groups in chronic mercury poisoning. Farm.i toks. 23 no.1:67-71 Ja-F '60. (MIRA 14:3)

1. Kafedra biologicheskoy khimii (zav. - prof. G.A.Uzbekov) Ryazanskogo meditsinskogo instituta imeni I.P.Pavlova.

(MERCURY — TOXICOLOGY) (BLOOD PROTEINS)

SHALIMOV, V.A.

Studies on tissue respiration during the process of the development of experimental atherosclerosis. Vop. med. khim. 8 to 5t471-476 S-0162 (MIRA 17:4)

1. Biokhimicheskaya laboratoriya eksperimental hogo otdela TSentral hogo naucime-issledovatel skogo instituta kurortologii i fizioterapii, Moskva.

SHALIMOV. 1.6.

Gase of scullexy of the lucry in (regreshoy, akush. 1 gim. no.6:128 (MIRA 17:12))

Nun 163.

1, 12 Tyucakoy rayunnay bolinitsy (glavnyy wrach B.S.Mukambetov)

Kirgiwakoy SSR.

SHALIMOV, V.A.

Effect of hydrogen sulfide baths on tissue respiration in experimental atherosclerosis. Vop. kur., fizioter. i lech. fiz. kul't. 29 no.1:40-44 '64. (MIRA 17:9)

1. Biokhimicheskaya laboratoriya (zav.- dotsent V.A. Shalimov) eksperimental'nogo otdela (zav.- prof. F.D. Vasilenko) TSentral'-nogo instituta kurortologii i fizioterapii, Moskva.

GRIGOR'YAN, D.G.; SHALIMOV, V.A.

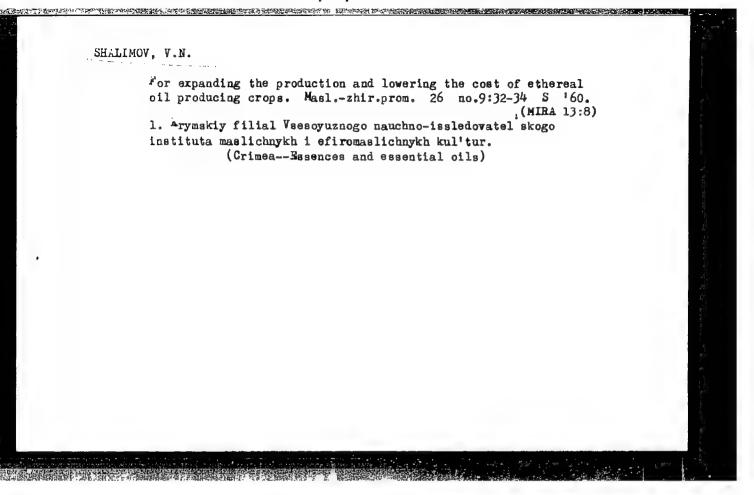
Electrophoretic analysis of cardiac muscle proteins in experimental atherosclerosis. Biul. eksp. biol. i med. 57 no. 2:61-64 F '54. (MIRA 17:9)

1. Laboratoriya biokhimii (zav. - dotsent V.A.Shalimov)
eksperimental'nogo otdela (zav. - prof. F.D.Vasilenko)
eksperimental'nogo instituta kurortologii i fizioterapii (dir. TSentral'nogo instituta kurortologii i fizioterapii (dir. kand. med. nauk G.N.Pospelova). Predstavlena deystvitel'nym
chlenom AMN SSSR N.N.Zhukovym-Verezhnikovym.

GRIGOR'YAN, D.G.; SHALIMOV, V.A.

Study of the electrophoretic protein fractions of the myocardium in the process of developing atherosclerosis. Biul. eksp. biol. i med. 59 no.6:56-58 Je 165. (MIRA 18:6)

1. Laboratoriya biokhimii (zav. - dotsent V.A. Shalimov) eksperimental'nogo otdela (zav. - prof. F.D. Vasilenko) TSentral'nogo instituta kurortologii i fizioterapii (dir. - kand. med. nauk G.N. Pospelova), Moskva.



SHALIMOV, V.N.; TAMASIYENKO, F.S.

System of payment for othereal-oil producing raw materials. Masl-zhir.prom. 26 no.10:18-30 0 '60. (MIRA 13:10)

1. Krymskiy filial Vsesoyuznogo nauchno-issledovatel'skiy instituta mashlichnykh i efiromaslichnykh kul'tur.

(Essences and essential oils)

SHALIMOV, V.N., starshiy nauchnyy sotrudnik; MIN'KOV, B.P., aladshiy nauchnyy sotrudnik

Using the preparation 2,4-D in rose plantations. Zashch. rast. ot vred. i bol. 8 no.2:27 F '63. (MIRA 16:7)

1. Krymskiy filial Vsesoyuznogo institute maslichnykh i efiromaslichnykh kul'tur. (Roses) (2,4-D)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548420001-6

E2d(v)/Flb(g)

2/07) s/534/61/000/020/001/002 p208/p301

AUTHORS:

Stanyukovich, K.P., and Shalimov, V.P.

TITLE:

On the motion of meteor bodies in the earth's atmosphere

PERIODICAL:

Meteoritika, 1961, no. 20, 54-71

TEXT: The motion of meteor bodies in the earth's atmosphere is normally treated by two different methods, depending on the ratio of the mean free path of the air molecules at the given altitude to the linear dimensions of the body. If the ratio is large then one can consider dimensions of the body. If the ratio is large then one can consider asc of a small ratio, the hydrodynamic approximation may be employed and the medium may be considered continuous. A further effect which must be considered is the formation of a shock wave, for velocities in excess of, say, 10 km/sec. The present paper is divided into two parts: the first part is concerned with the motion of a meteor body before the appearance of the shock wave, while the second part is devoted to shockwave effects. It is shown in the first part that the coefficient C in

Card 1/4

27045 S/534/61/000/020/001/002 D208/D301

On the motion ...

the usual aerodynamic relation

 $-M\frac{du}{dt} = \frac{c_x}{2} spu^2.$ (18)

H

M - mass of the body, u - its velocity, S - the cross section and P - the density) is given by (in the case of iron).

 $C_x = 2 + 0.16 \cdot 106 \left[\frac{9}{u} + 2.4 \cdot 10^{-12} \, \text{u} \right]$ (24) A general and more complicated formula which can be used with other materials is also given. The values of C obtained on the basis of the present theory are said to the larger than those predicted previously by other workers. This is in be larger than those predicted previously by other workers. This is in duced previously from meteor observations may have been too high. In duced previously from meteor observations may have been too high. In duced previously from meteor observations may have been too high. In duced previously from meteor observations derive a number of formulae the second part of this paper the authors derive a number of formulae describing the shock-wave effects. The results obtained for iron are describing the shock-wave effects. The results obtained for iron are conveniently summarised in Fig. 3. This figure gives energy (%.10=12 conveniently summarised in Fig. 3. This figure gives energy (%.10=12 conveniently summarised in Fig. 3. This figure gives energy (%.10=12 conveniently summarised in Fig. 3. This figure gives energy (%.10=12 conveniently summarised in Fig. 3. This figure gives energy (%.10=12 conveniently summarised in Fig. 3.

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On the motion ...

u = 60 km/sec; angle between the vertical and the direction of motion $\mathcal{O} = 72^{\circ}$). The curve designations are as follows: curve 1 - total energy received by the body, curve 2, radiation from shock wave, curve 3 - aerodynamic heating, curve 4 - energy lost by evaporation. The phenomenon is seen to be equivalent to an "explosion", the energy involved being very large. There are 3 figures, 3 tables and 12 references: 11 Soviet-bloc (1 translated from English) and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: \mathcal{O} .R. Davies, Proc. Roy. Soc. 61, 105, 1948.

(For Fig. 3 see Card 4)

D208/D301

Card 3/4

s/2534/64/000/024/0070/0074

AT4035830 ACCESSION NR:

AUTHOR: Shalimov, V. P.

TITLE: Some estimates of the rate of disintegration of the surface of large meteorites traveling through the atmosphere at supersonic speeds

SOURCE: AN SSSR. Komitet po meteoritam. Meteoritika, no. 24, 1964. Trudy* Desyatoy Meteoritmoy konferentsii v Leningrade 29 maya - 1 iyunya 1962 g., 70-74

TOPIC TAGS: meteor, shock wave, meteor ablation, meteor reentry

ABSTRACT: The rate at which a meteor traveling at supersonic speeds disintegrates has been considered. The heating of the meteoric mass, caused by its reaction to a self-generated shock wave, can be studied as a nonlinear problem of a body with variable thermal conductivity and has simple centered solutions. In order to have a considerable rate of surface disintegration, the the layer between the shock wave and meteor must not exceed 5-8.

. Card 1/2

ACCESSION NR: AT4035830

This indicates that when the rate of disintegration is \$10^2\$ cm/sec, a meteor which consists of ice materials and has aminitial velocity of 30 km/sec loses its mass fully in 10 sec. The mass destruction rate of the meteor is increased by fragmentation under high pressures developed by the shock wave, reaching 1000 atm. These factors are probably responsible for the fact that high-velocity meteors, which penetrate the atmosphere, can be fully destroyed without reaching the earth. Orig. art. has: 19 formulas and 1 table.

ASSOCIATION: none

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SUB CODE: AA

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Card 2/2

EWT(1)/FCC/EWA(h) GW L 65296-65 UR/0203/65/005/004/0626/0644 ACCESSION NR: _ AP5020992 550.388.2 AUTHORS: Pletney, V. D.; Skuridin, G. A.; Shalimov, V. P.; Shvachunov, TITLE: Dynamics of the geomagnetic trap and the origin of earth's radiation belts SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 4, 1965, 626-644 TOPIC TAGS: magnetic field, Van Allen belt, magnetic trap, geomagnetic field, charged particle concentration, magnetic storm, solar burst ABSTRACT: The interaction of solar corpuscular streams with the geomagnetic field is discussed with explanations about the formation of the earth's magnetosphere and the mechanism of charged particle penetration into the magnetosphere. The scalar potential of the geomagnetic field inside the earth's magnetosphere is expressed in spherical harmonics, and the solar particle stream-geomagnetic field interaction is described by the model shown in Fig. 1 on the Enclosure. In order to analyze the possibility of particle penetration into the magnetosphere, the following equation is solved numerically $\frac{\rho}{\rho^2} - \alpha \rho + \frac{2\gamma}{\rho} = \pm 1$

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Card 2

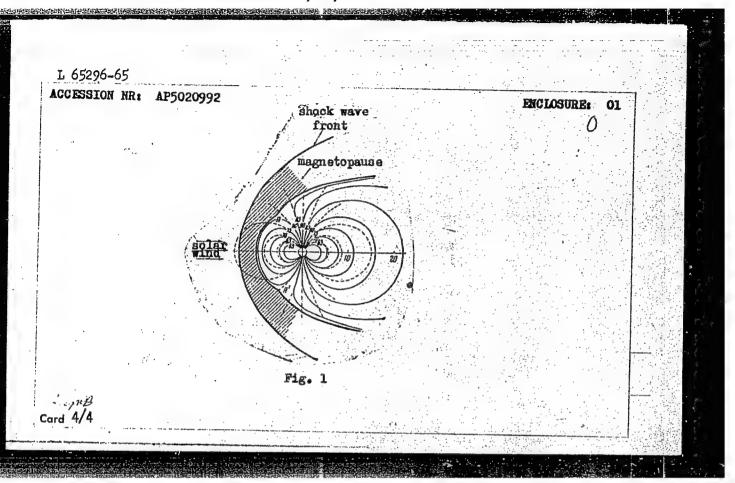
ACCESSION NR: AP5020992

where 7 is the Stormer integration constant,

 $a = \frac{M_1}{2M_0} \frac{1}{r_0^3}$

and M is the magnetic moment of the earth's dipole. It is shown that the only particle penetration occurs in the vicinity of the neutral points AA', in the diurnal side of the magnetosphere. This penetration creates gradient and radius of curvature drift of charged particles, resulting in the formation of magnetic field neutral layers and a plasma wake in the equatorial plane in the night side. Data are reported from the Electron-2 artificial satellite in support of this argument. These trapped particles are shown to be responsible for auroral phenomena and magnetic storms. The inverse phase of the magnetic storm is connected with the sharp drop in solar particle emission at the magnetic storm and a decay in trapped particle drift currents on the geomagnetic trap boundaries. This magnetic decay causes particle drifts into the magnetic trap with a corresponding particle acceleration. This explains the experimental observation of increased intensity of high-energy particle flow in the outer regions of the trap during the reverse of high-energy particle flow in the outer regions of the trap during the reverse of high-energy particle flow in the outer regions of the trap during the reverse of high-energy particle flow in the outer regions of the trap during the reverse of high-energy particle flow in the outer regions of the trap during the reverse of high-energy particle flow in the outer regions of the trap during the reverse of high-energy particle flow in the outer regions of the trap during the reverse of high-energy particle flow in the outer regions of the trap during the reverse of high-energy particle flow in the outer regions of the trap during the reverse of high-energy particle flow in the outer regions of the trap during the reverse of high-energy particle flow in the outer regions of the trap during the reverse of high-energy particle flow in the outer regions of the trap during the reverse of high energy particle flow in the outer regions of the trap during the reverse of the magnetic field in the fi

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this work. The authors the V. I. Volosov, V. I. Kraso colleagues for taking part	ank also lae he Al	perin. V. V. Ter	myy, and other	
v. 1. Volosov, v. 1. Arasov	in evaluating thi	s work and also	L. A. Kazeno	n for
colleagues for taking part reviewing this material an	d for formulating	this paper." Or	rig. art. hasi	22
formulas, 14 figures, and	1 table.			
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ACCESSION NR: AP5009654

UR/0293/65/003/002/0336/0340

AUTHOR: Pletnev, V. D.; Shuridin, G. A.; Shalimov, V. P.; Shvachunov, I. N.

TITLE: Dynamics of the geomagnetic trap and the origin of radiation belts

SOURCE: Rosmicheskiye issledovaniya, v. 3, no. 2, 1965, 336-340

TOPIC TAGS: magnetosphere, solar wind, geomagnetic field, magnetic storm, force line, proton belt, electron belt

ABSTRACT: The boundary of the magnetosphere created by the interaction between the solar wind and the geomagnetic field reaches a distance of 10 terrestrial radii on the day side of the earth. Electric currents on the boundary increase the magnetic field there. On the night side the magnetosphere is very extended. A particle may pass through the boundary of the magnetosphere because of a radial drift of the particle in an asymmetric magnetic field. The physical processes are studied in a magnetic field from parallels 170°. The regions permitting and prohibiting particle motion are determined,

Card 1/2

J. 60541.254..... ACCESSION NR: AP5009654 following Stormer's theory. Boundary currents diminish the magnetic field at neutral points. This effect shows up in the beginning of a magnetic storm. The combination of the current field and the dipole serves to straighten the force lines in the magnetosphere and stretch them towards the solar wind. The proton belt is nearer the earth than the electron belt. Orig. art. has: 3 figures and 2 for-[EG] ASSOCIATION: none SUB CODE: AA, ES ENCL: 00 SUBMITTED: 31Dec64 ATD PRESS: 3245 OTHER: 011 004 NO REF SOV:

"APPROVED FOR RELEASE: 08/23/2000 CIA-

CIA-RDP86-00513R001548420001-6

61001-65 EWT (1)/EWG(v)/FCC/EEC-4/EWA(h) Po-4/Pe-5/Pq-4/Pae-2/Peb/Pi-4 UR/0384/65/000/003/0018/0026 4 ACCESSION NR: AP5018435 AUTHOR: Skuridin, G.A. (Doctor of physico-mathematical sciences); Pletnev. V. D. (Candidate of physico-mathematical sciences); Shalimov. V. P.; Shvachunov, I. N. TITLE: Solar wind, magnetosphere, and the Earth's radiation belt SOURCE: Zemlya i Vselennaya, no. 3, 1965, 18-26 TOPIC TAGS: solar wind, earth magnetosphere, magnetic storm generation, geomagnetic field perturbation, aurora ABSTRACT: This is the first part of a study in which, on the basis of experimental data from Soviet and US satellites, the authors advance the hypothesis that all the complex geophysical effects such as the aurora polaris, magnetic storms, dynamics of the radiation belt, and the dynamics of the geomagnetic field, are basically determined by the interaction of the solar corpuscular flows with the Earth's magnetic field. A survey is made of the available experimental and theoretical data on the solar wind and the Earth's magnetosphere. Orig. art. has: 7 formulas and 9 figures. ASSOCIATION: None SUB CODE: ES ENCL: 00 SUBMITTED: 00 OTHER: 000 NO REF SOV: 000 Card 1/1

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TUA	HORS:	<u>Skuri</u> data o	din, G. <i>I</i> C physica		ical so	iences)	Shal	imov, V	. P.;	Shvachun	ov, I.	
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in the earth's magnetic field. In the inner zone, electrons possess the highest energies (600 kev for 10⁸ particles/cm²/sec). The outer zone has two maxima, the first of which occurs at three earth radii with proton energies of 150 kev to 4.5 Mev. The second maximum occurs at 4.5 earth radii with 40 kev electrons. During magnetic storms, the trapping field strength increases because of compression of lines of force. As a consequence of this, particle energy increases and the location of energy maxima move closer to the earth's surface. The interaction of cosmic rays with the terrestrial atmosphere generates yet a third type of particle—the neutron, which eventually decays into a proton and an electron. Although this decay contributes to the number of trapped particles in the Van Allen belts, it does not explain the overall charged particle injection process into the magnetic traps. To explain this phenomenon, a new hypothesis is presented where charged particle injection is associated with a betatron acceleration during the reverse phase of a magnetic storm. Orig. art. has: 16 figures.

ASSOCIATION: none

SUBMITTED: CO

ENCL: 00

SUB CODE: ES

NO REF SOV: 000

OTHER: OOC

Card 2/2 K

L 1281-66 EWT(1)/FCC/EWA(h) GS/GN

ACCESSION NR: AT5023599

UR/0000/65/000/000/0285/0314 34

AUTHOR: Pletnev, V. D.; Skuridin, G. A.; Shalimov, V. P.; Shvachunov, I. N.

TITLE: How solar particles break through into the earth's magnetosphere, the mechanisms by which these particles are captured and accelerated, and the part played by these processes in the dynamics of the geomagnetic trap

SOURCE: Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva. Moscow, 1965. Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferentsii. Moscow, Izd-vo Nauka, 1965, 285-314

TOPIC TAGS: geomagnetic field, solar wind, solar radiation, geomagnetism, charged particle, particle motion, magnetic storm

ABSTRACT: The authors consider the interrelationship between geophysical phenomena which take place in outer space in the vicinity of our planet with regard to the dynamics of the geomagnetic trap. The classical Störmer method is used for analyzing the motion of charged particles in the magnetospheric field. It is found that solar particles cannot break through into the magnetosphere in the central region on the daylight side even in the initial phase of a magnetic storm, but that these particles

Card 1/3

L 1281-66

ACCESSION NR: AT5023599

easily penetrate deeply into the geomagnetic trap during the main phase of such a storm. A theory is proposed for penetration of the magnetosphere by charged particles in the vicinity of neutral points. It is found that since there is no magnetic reflection in this case, particles with a constant positive velocity can penetrate the magnetosphere, the greatest probability being for particles moving in the plane the magnetosphere. Experimental data are given which confirm the theory proposed in magnetosphere. Experimental data are given which confirm the theory proposed in this paper for penetration of the magnetosphere by charged particles. "The authors this opportunity to express their gratitude to Sh. Sh. Dolginov, Ye. G. Yerotake this opportunity to express their gratitude to Sh. Sh. Dolginov, Ye. G. Yerotake this opportunity to express their gratitude to Sh. Savenko and B. I. Saving Shenko, L. N. Zhuzgov, K. I. Gringauz, D. L. Vaysberg, L. A. Savenko and B. I. Saving for the experimental data given in this paper, and also for discussing the proposed theory. The authors are also grateful to Ya. L. Al'pert, B. R. Chirikov, M. Z. Khokhlov, B. A. Tverskiy, V. I. Krasovskiy, Yu. I. Gal'perin, V. V. Temmyy and others who took part in discussing this work while it was being prepared for the press. The authors also thank L. A. Kazenova for her great assistance in analyzing the materials and in the final layout of the article." Orig. art. has: 8 figures, 2 tables, 24 formulas.

ASSOCIATION: none

Card 2/2

L 1281-66 ACCESSION NR: AT5023599	The second secon		
SUBMITTED: 02Sep65	ENCL: 00	SUB CODE: ES, NP	
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TABLE 18, G.A., acktor fluide matematerhandish pauk; FLETHAV, V.P., cand. Stricture metal. truly SHALHOY, V.P.; SHAGHEROY, I.H.

Solar wind, segmetic shell and radiation test of the earth.

(conclusion). Nem. i vael. 1 so.4-12-22 Ji-Ag (MTRA 18:12)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548420001-6

SOURCE CODE: UR/0293/66/004/003/0394/0403 ENT(1)/FCC 369-7-66 ACC NR: AP6019592 AUTHORS: Shalimov, V. P.; Shvachunov, I. N. TITIZ: Charged particle motion study in a dipole magnetic field occurring inside the magnetic field, using the Stormer method. 2 SOURCE: Kosmicheskiye issledovaniya, v. 4, no. 3, 1966, 394-403 TOPIC TAGS: magnetic field, dipole, particle trajectory, magnetic trap, magnetosphere

ABSTRACT: The results of Part I (V. P. Shalimov and I. N. Shvachunov. Kosmich. issled. 4. No. 2, 208, 1966) are used to study charged particle orbits emanating from the sun and entering the G-zone of the terrestrial magnetosphere. Inside this region the magnetic field potential is approximated by the sum of a dipole field and a homogeneous

 $U = U_0 + U_1 = -\frac{M_0}{r^2} \sin \varphi - \frac{M_1}{r_0^3} r \sin \varphi .$

Using Equation 15 of Part I, the various boundaries delineating the forbidden and allowed zones for particle trajectories are evaluated. First, the case of periodic allowed zones for particle trajectories are systematic. $\frac{1}{p} \ge 730$ MeV at $r_0 = 10a$ trajectories is considered, corresponding to proton energies $\frac{E}{p} \ge 730$ MeV at $r_0 = 10a$ and $E_p \ge 2.9$ Bev at $r_0 = 6a$ (a = earth's radius, and $r_0 = distance$ to the magnetosphere

Card 1/2

ACC NR: AFJO30404 SOURCE CODE: UR/0293/66/004/005/0788/0790 AUTHOR: Depublication, A. I.; Shalimov, V. P. CAG: nome TITIE: Conserming the anomalous diffusion of charged particles in the magnetosphere of the Tarth SOURCE: Mosmicheskiyo isslodovaniya, v. / no. 5, 1966, 788-790 TOPIC TIES: earth regnetic field, space charge density RESTRACT: V. A. Prerskoy (see his Essledovaniya kosmicheskogo prostranstva -Investigations of cosmic space, Publ. House "Manka", 1965) derived the basic equation for the transfer of charged particles across the drift shells of the magnetic field of the earth under the action of azimuthally asymmetric magnetic pulse-like perturbations. The present author applies this theory to protons of energy over 0.1 Mev and compares the results with the experimentally measured proton intensities obtained by the Explorer 12. There are systematic deviations between the theoretical and experimental data. Orig. art. has: i figure and 8 equations. SUB CODE:1003/ SUBM DATE: 03Jun66/ CRIG REF: 004/ OTH REF: 005 Cord 1/1

YURCHENKO, I.F.; OKUNEV, P.F., starshiy mokhanik; TOLKACHEV, V.P., inzh.;

BYCHKOVSKIY, A.V., kand.tekhn.nauk; GORBATYUK, V.A., inzh.;

LAGUN, Ya.I., starshiy inzh.; SHALIMOV, V.S., inzh.; DANILOV,

V.I., inzh.

Replies to the inquiries of our readers. Elek. i tepl. tinga (MIRA 14:10)

1. Nachal'nik Upravleniya truda, zarabotnoy platy i tekhniki bezopasnosti Ministerstva putey soobshcheniya (for Yurchenko).

2. Otdeleniye avtotormoznogo khozyaystva Vsescyuznogo nauchno-issledovatel'skogo instituta zheleznodorozhnogo transporta Ministerstva putey soobshcheniya (for Okunev). 3. Otdel glavnogo tekhnologa Perovskogo zavoda po remonty elektropodvizhnogo sostava (for Lagun).

(Diesel locomotives)
(Railroads-Rolling stock)

RADINOVICH, Nisan Borukhovich; SHALIMOV, Yu.B., red.

[High speeds in well drilling] Vysokie skorosti prokhodki
skvezhin. Elista, Kalmagosizdat, 1964. 34 p.

(MIRA 18:3)

AUTHORS: Verner, V. D., Finkel'shteyn, D. T. and Shalimova, A. V.

TITLE: Study of behavior of nitrogen in Fe alleys having facecentered lattice by using the method of internal friction

PERIODICAL: Fizika tverdogo tela, v.3, nc. 11, 1961, 3363-3366

TEXT: The authors investigated the internal friction of Fe + 30% Ni, Fe + 20% Ni + 9% Mn, Fe + 28% Mn alloys and of electrolytic iron as a function of temperature. Wire-type samples of U.T mm diameter were annealed before testing in moisture-lader tydrogen in order to remove annealed before testing in moisture-lader tydrogen in order to remove an and nitrogen. K. M. Rozin and B. N. Finhelishteyn (DAN SSSR, 91, carbon and nitrogen. K. M. Rozin and B. N. Finhelishteyn (DAN SSSR, 91, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia Sinica, 4, 501, 25-20 austenite steel. Ke-Ting-sui, Wang Chi-mea (Stientia S

S/181/61/003/011/018/056

Study of behavior of nitrogen in Fe alloys...B125/B104

at 950°C it is given as D = 1.26·10⁻⁸ cm²/sec. Peaks found by the authors are caused by diffusion of nitrogen atoms in face-centered lattices under the action of elastic stresses. There are 5 figures, 1 table, and 11 references: 7 Soviet-bloc and 4 non-Soviet-bloc. The three most recent references to English-language publications read as follows: J. L. Snoek. Physica, 8, 711, 1941.; C. Wert. Phys. Rev., 79, No. 4, 601, 1950.; J. D. Fast, M. V. Verripr. J. Iron and Steel Inst., 176, 24, 1954.

ASSOCIATION: Moskovskiy institut stali im. I. V. Stalina (Moscow Steel Institute imeni I. V. Stalin)

SUBMITTED: June 5, 1961

Fig. 1. Temperature dependence of internal friction of nitrided iron. After quenching from $700^{\circ}C$: (1) Heating, (3) cooling; after quenching from $700^{\circ}C$ and cold treatment, (2) heating, (4) cooling; after a third quenching from $700^{\circ}C$; (5) heating.

Card 3/4

KUGAYENKU, O.M. (Moskva); ROZENBERG, V.M. (Moskva); SHALIMOVA, A.V. (Moskva)

Density of slip traces on the surface and in the body of a specimen.

Izv. AN SSSR.Otd.tekh.nauk. Met. i topl. no.5:126-127 S-0 '62.

(MIRA 15:10)

(Deformations (Mechanics)) (Metallography)

AUTHORS: Kugayenko, TITLE: Influence of SOURCE: Fizika met	O. N.; Rozenberg, V. M.; Shalim initial substructure on the pro- allov i metallovedeniye, v. 15, n	cess of creep \ 57
ABSTRACT: Changes crystals (3.4% Si) results obtained we cally free of substquentitatively. A tures (greater degreep. However, we those with an induprocess are exercised.	in the artificially produced substance been studied by the dislocative compared to those of a sample ructure. The substructural variated of 1.5 kg/Sq mm applied to be of deformation) resulted in a major the action of a 2.5 kg/Sq mm and substructure behaved almost it reasing number of subboundaries it was true for samples with estimate of subboundaries diminished to resconclude that the substructure	ennealed at 12000 and pitch ations have been evaluated more highly developed substructured smaller deformation during the aload the annealed sample and dentically. During the creep was formed in the annealed tablished initial substructures,
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ACCESSION NR: AP3000105

depend on the initial substructure. When the substructures of different samples become alike their creep velocities become equal. The results obtained with the 2.5 kg/Sq mm load show that under sufficiently high loads the subboundaries either cease to be an obstacle to deformation, or that the initial substructure changes too rapidly (approaching that of the annualed sample) for its effect to be detected. The time interval required for reaching the point of failure is different in different samples. This is explained by the effect of the initial substructure. Orig. art. has: 5 figures.

ASSOCIATION: Institut metallofiziki Tenlichm (Tenlichm Institute of Physical Metallurgy)

SUBMITTED: 16Jul62

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: ML

NO REF SOV: 004

OTHER: COL

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001548420001-6

SHALIMOVA, G.G.

USSR/Physical Chemistry - Crystals, B-5

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 60934

Author: Ornatskaya, Z. I., Shalimova, G. G.

None Institution:

Title: Electric Properties of Sodium-Tungston Bronze and of the System

Sodium Tungstate-Sodium Tungsten Bronze

Nauch. yezhegodnik za 1954 g. Saratovsk. un-ta, Saratov, 1955, Original Periodical:

627-629

One of the components -- #a2WOL (\$) -- has a typical semiconductor Abstract:

conductivity. Investigation of conductivity of the other -- Natwo3 (II) -- (tungsten bronze) showed: specific electric conductivity of is 2 orders lower than according to the data of Haegg (Haegg, G., Z. phys. chem., 1935, B29, 192); or increases in temperature interval between room temperature and 2150-2500, after which up to 530° it remains almost constant; temperature coefficient of σ is 1.1-0.9, disapoiation energy $\Delta E = 0.2$ ev. Measurements were made

Card 1/2

COLOME, L.M.; Prinimali uchastiye: BYKOVA, L.I.; SHALIMOVA, G.V.:

NESKORODEVA, V.I.; KOVZHIN, L.A.

Structural and mechanical properties of vat brilliant green Zh as suspensions or pastes. Khim.prom. no.8:531-535 Ag '61.

(MIRA 14:8)

1. Filial Gosudarstvennogo nauchno-issledovatel'skogo instituta organicheskikh poluproduktov i krasiteley, g. Rubezhnoye.

(Dyes and dyeing)

VINOGRAD, L.Kh.; KARPOV, V.V.; SHALIMOVA, G.V.

2-anilino-1,4-naphthoquinones. Zhur. prikl. khim. 34 no. 12:2775-2779 (MIRA 15:1)

l. Rubezhanskiy filial Gosudarstvennogo nauchno-issledovatel'skogo instituta organicheskikh poluproduktov i krasiteley.

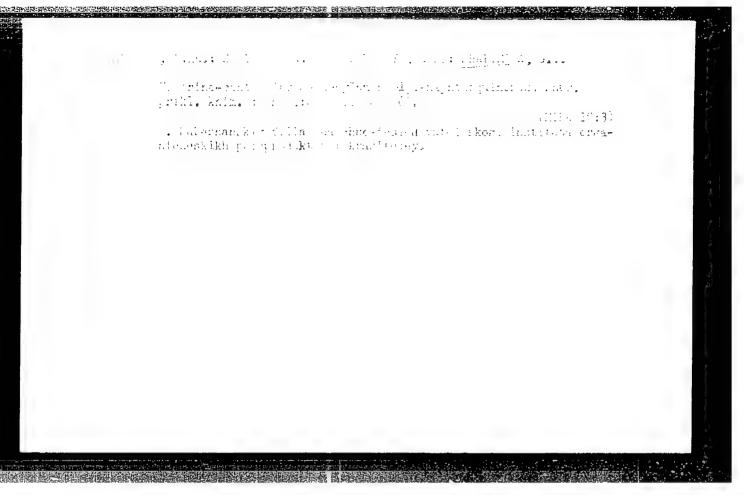
(Naphthoquinone)

GOLOMB, L.M.; SHALIMOVA, G.V._

Determining the relative reduction rate of vat dyes in printing pastes. Tekst.prom. 22 no.9:25-29 S '62. (MIRA 15:9)

1. Sotrudniki Rubezhanskogo filiala Nauchno-issledovatel skogo instituta organicheskikh poluproduktov i krasiteley.

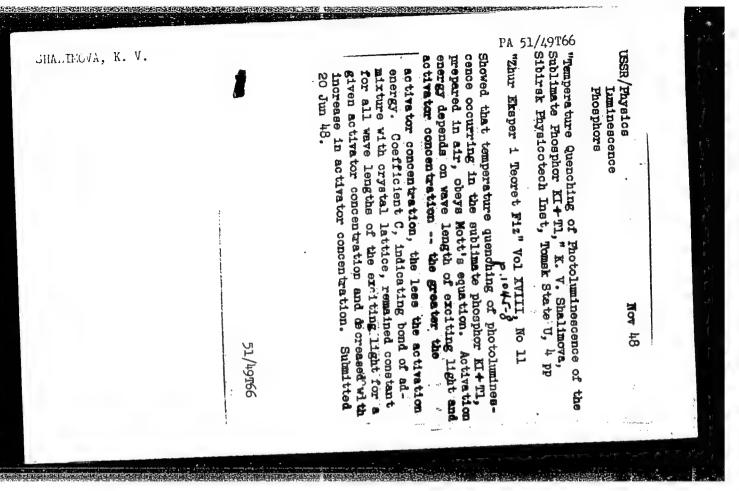
(Textile printing) (Dyes and dyeing)



GOLOUB, L.M. [Holomb, L.M.], kard. teldin, mark; STATITON, G.V. [Shalimova, H.V.]

Potentionatric method for determining the exidation-reduction
properties of vat dyen. Lem. prom. no.4:50-54 C-B '65.

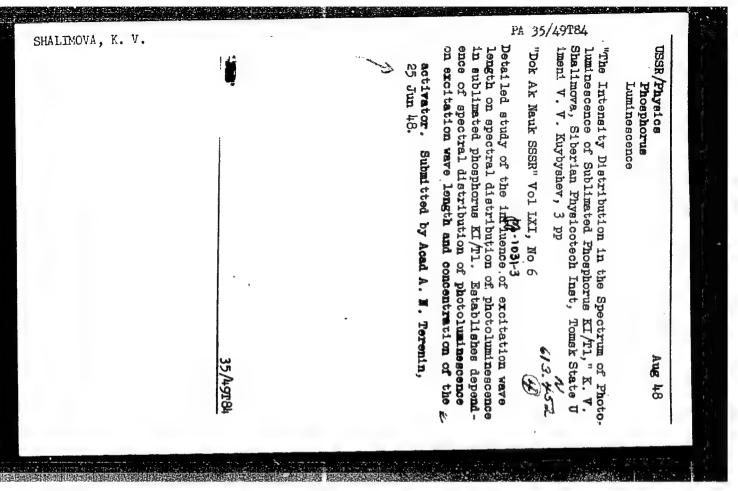
(HE'A 19:1)



SHALHOVA, E. T.

Shalhova, K. V. "The ratio between temperature and the amount of the publishmens ence of KJ/RL sublimate of phosphorous," Trudy Sib. Fin. the publishmens ence of KJ/RL sublimate of phosphorous, Trudy Sib. Fin. teldar. 1:-12, Issue 26, 17h., p. 160-67, - Biblion: 5. 167

SC: U-92ml, December 15, 1263, (Letopis 'Zhurnal 'nykn Statey, 25, 19a2)



rh 61/.461-3

USSR/Physics

SHALILOVA, K. ..

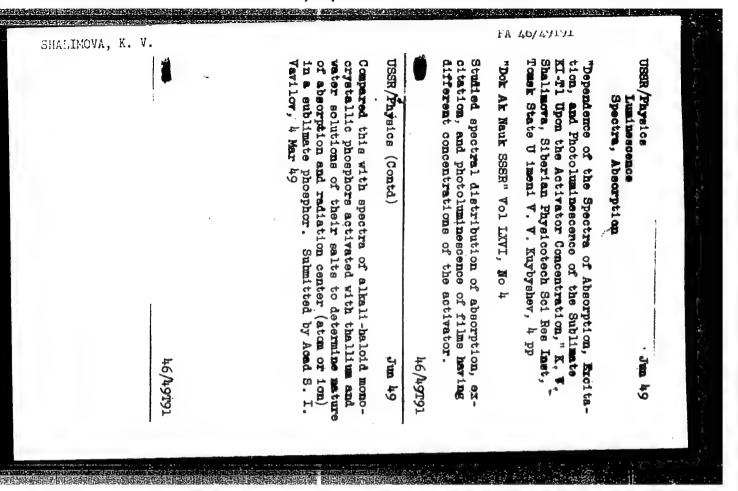
Aug 49

Iuminescence Temperature

"Temperature Dependence of the Radiation Spectra of the Sublimate-Phosphor' KI-Tl," K. V. Shalimova, Siberian Physicotech Inst, Tomsk State U, 3 pp

"Zhur Eksper i Teoret Fiz" Vol XIX, No 8

Studied effect of temperature upon spectral distribution of the photoluminescence of crystallic KI-TI films. Temperature dependence of luminescence spectra explains changes of radiation of the KI-TI monocrystal observed during a change in temperature. Submitted 11 Apr 49.



以此代表的,所以是自己的证明,但是不是自己的是是是是是自己的的。

USSR/Physics Luminescence Jun 49

"Photoluminescence of a Sublimate-Phosphor NaI-Tl," X. V. Shalimova, Siberian Physicotech Inst, Tomsk State U imeni V. V. Kuybyshev, 3th pp

"Dok Ak Nauk SSSR" Vol LXVI, No 5

Demonstrates experimentally that in crystal lattices of NaI and Tl which are disturbed by great concentrations of catalysts, electronic levels of the thallium ion are subject to the splitting characteristic of electric fields. Submitted by Acad S. I. Vavilov, 4 Apr 49.

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50/49198

3

Absorption and emission spectra of the sublimate phosphor KCl-Tl. K. V. Shalimova (Tounk Gosudarst, Univ. im. V. Kulbysheva). Poklady Akad. Nauk S.S.S.R. 70, 225-8(1959).—Evapd. films with a low Tl content show 2 absorption maxima, at 2430 and 2500 A. las against the single max. at 2475 A. observed in the single max. at 2475 A. observed in the single round of 185 to 6:69 Pp., with the latter, excited level sufficient a split into a doublet in the asymmetrical field of the lattice in the film. Further absorption maxima are

with 2482 and 2537 A., there are 3 maxima, at about 3000, 4700, and 7000 A., the 1st 2 of which had also been observed in single crystals. The 3000-A. band is much more intense than the 7000-A. band. At medium T1 contents, the 2 absorption maxima are somewhat shifted, to 2420 and 2530 A., resp., with the longer-wave component more intense than the shorter-wave component, in reversal of the intensity ratio found at low T1 contents. In emission, blue in excitation with 2537 and yellow in excitation with 2537 and yellow in excitation with 2532 and 2802, the 3 maxima lie at about 3000, 5300, and 7000 A. Variation of the wave length of the exciting light results only in a redistribution of the relative intensities of the 3 emission maxima. This, in conjunction with analogous findings with K1-T1 and N41-T1 films, indicates that the 2750-A. absorption band corresponds to the forbidden transition 63* S₀ = 6.00 p* g, with the prohibition lifted in the asymmetrical field of the lattice in the film. This addn, absorption band to responsible for the infrared emission band. At high T1 contents, absorption in 2750 A. becomes more intense. Excitation with 2537, 2052, or 2802 A., produces only yellow luminesseence. Only 2 maxima are found in emission, 5300 and 7000 A., with the latter more intense. The absorption spectrum shows bands at 2400, 2501, 2901, 1930, 2001, 2001, 2001, 2001 A. The short-wave band pair 1930, 2000, 15 assigned to the transition 65* S₀ = 6.00 p* P₀, the latter level splitting into a doublet. The corresponding effect in a single crystal is the asymmetry of the 1960-A. absorption max., appearing at T1 contents of 10. mol. The group of bands 2100, 2169, and 2240 A. corresponding of the prohibition 6; S₀ = 6.00 p* P₀, and splitting of the latter level into a triplet.

PA 175T78 CHAITHOUA, K. V. USSR/Physics - Phosphors 1 Apr 50 "Dependence of Absorption Spectra of Alkali-Halide Sublimate-Phosphors Activated by Tallium Upon Temperature," K. V. Shalimova, Siberian Physicotech Inst, Tomsk State U imeni Kuybyshev "Dok Ak Nauk SSSR" Vol LXXI, No 4, pp 651-653 Studies KI-Tl, NaI-Tl, KBr-Tl, KCl-Tl films at temp of 500-6000. Relative coeff of absorption (Kd) vs wave length (2,200-3,000 A) are detd for these phosphors. Submitted 6 Feb 50 by Acad S. I. Vavilov. 175T78

- 1. SPALITYA, K. T.
- 2. USSR (400)
- 4. Phosphors
- 7. Nature of the brief luminescence of crystalline phosphors, Iav. AN SSSR Ser. fiz., 15 No. 5, 1951.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

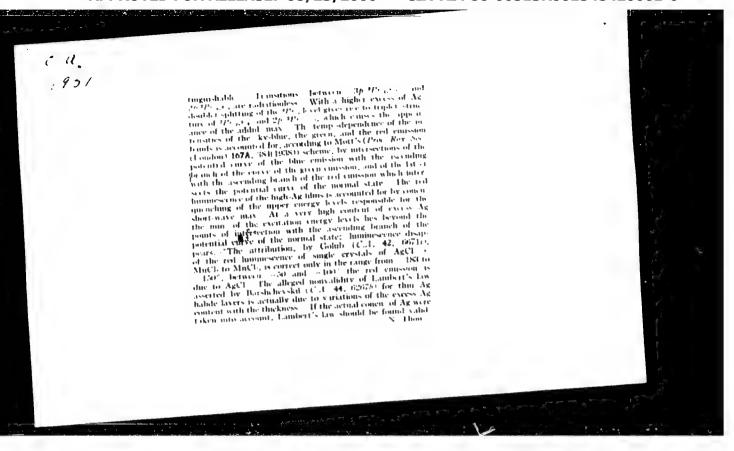
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halide sublimate phosphors | K | Shalimova and A | V |
Belkma (Tomsk State Univ. After Fleyff Tower Fi. 21, 326-37(1954) | Vanishing Miller of the presence of colloidal Ag produced in the unbination | After insulation with ultraviolet, or rose, the color miller of the presence of colloidal Ag produced in the unbination | After insulation with ultraviolet, or rose, the color with show of logical and temp an intense given human securities which factly insulation with ultraviolet in the with the volot AgCl, or with AgCl prepal in the presence of light, show at logical actional by ultraviolet into of white AgCl, or with AgCl prepal in the presence of light, show at logical action, temp, the emission explicit entire given over into green at higher temp; in exception with given of deep blin AgCl, obtained by prolonged for miller ground action of white AgCl, obtained by prolonged for an action of white AgCl, obtained by prolonged for an action of minimescence, with rising femp, the same points, red luminescence, with rising femp, the finite it is notily given bed at the further rise if rimp. AgCl in the ground of the minimescence in the presence of luminescence of luminescence of luminescence and lumination to the ultraviolet than in AgCl with motion of article for the ultraviolet than in AgCl with subhunch in Cl shows a max at 2300 Å, which extends on fairly long tradiction with ultraviolet than in AgCl with extended the further rise of the ultraviolet and to humanescence at logical article. By their prepin, the first on fairly long tradiction with ultraviolet and to humanescence at logical article. By their prepin, the first with green emission contain only small anits, of excess Ag. and which falls sharply at the long-wave end, in observation at rosen temp. By their prepin, the first luminescence at liquid-air temp. By their prepin, the first luminescence at liquid-air temp.

With the length of the nonexes and had an anity A and the milk of the nonexes and the action was a first A and the milk of the conting wave l

the films made with like AgCl corresponds to a medium content of excess Ag. The absorption is enhanced with the septem to 2 distinct bands, which are less marked, in the septem to 2 distinct bands, which are less marked, in the septem to 2 distinct bands, which are less marked. In the septem carried at the one may a 3400, according to the flow Ag through the absorption in the long wave range, instead of the one may at 3400, several may appear at 3400, 3400, 2650, 2850, 1400, and 1400 A. In contrast to the flow Ag through the absorption carry at liquid an temp now lies below that at room temp. I minute sent temp now lies below that at room temp. I minute sent temp now lies below that at room temp. I minute sent the latter may assume with the temp. The red himnessent high Ag films of AgCl, obtained either by simultaneous sublimation of white AgCl and Ag or by sublimation of deep-sublimation of white AgCl and Ag or by sublimation of deep-sublimation of white AgCl and Ag or by sublimation of deep-sublimation of white AgCl and Ag or by sublimation of deep-sublimation of white AgCl and Ag or by sublimation of deep-sublimation of white AgCl and Ag or by sublimation of deep-sublimation of white AgCl and Ag or by sublimation of deep-sublimation of the medium-Ag films, only with more distinct may. The emission spectrum shows 3 may, at 1809, 5500, and 0.00 A, 1800 A, 1800 and 0.00 A, 1800 A, 1800 and 0.00 A, 1800 A,



SHALIMOVA, K. V.

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USSR/Physics - Luminescence, Zinc Oxide 21 Jun 51

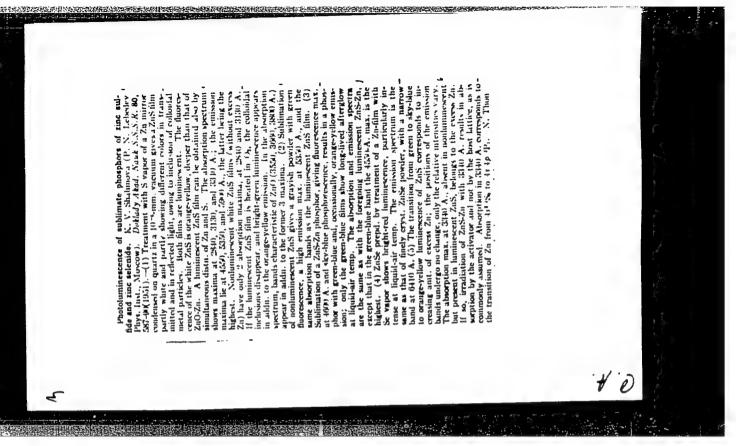
"Spectra of Absorption and Radiation of Zinc Oxide,"
K. V. Shalimova, Phys Inst imeni Lebedev, Acad Sci

"Dok Ak Nauk SSSR" Vol LXXVIII, No.6, pp 1127-1130

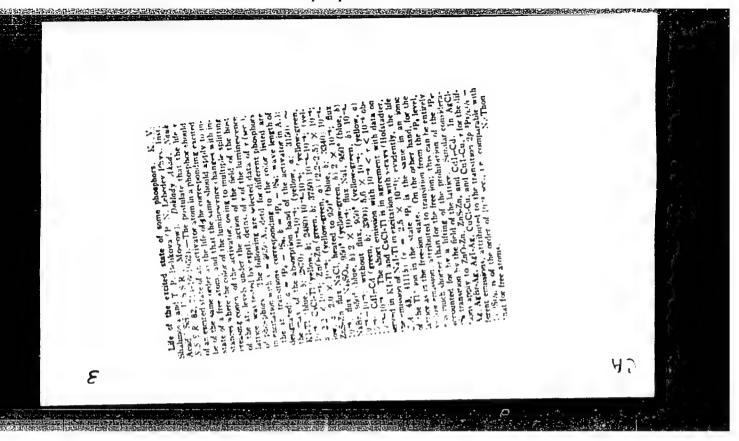
Discusses results obtained in investigation of photoluminescence of ZnO, and offers possible explanation of this phenomenon. Worked at very low temps. Obtained positions of maxima in spectra that differ from those of other investigators. Cf. Loverenz, "An Introduction to Luminescence of Solids," London, 1950. Submitted 10 Apr 51 by Acad D. V. Skobel'tsyn.

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SHALIMOVA, K.V., MENDAKOV, N.S.

Silver Iodide, Flourescence

Photoluminescence of sublimate-phosphor of silber iodide. Dokl. AN SSSR, 82, No. 4, 1952.

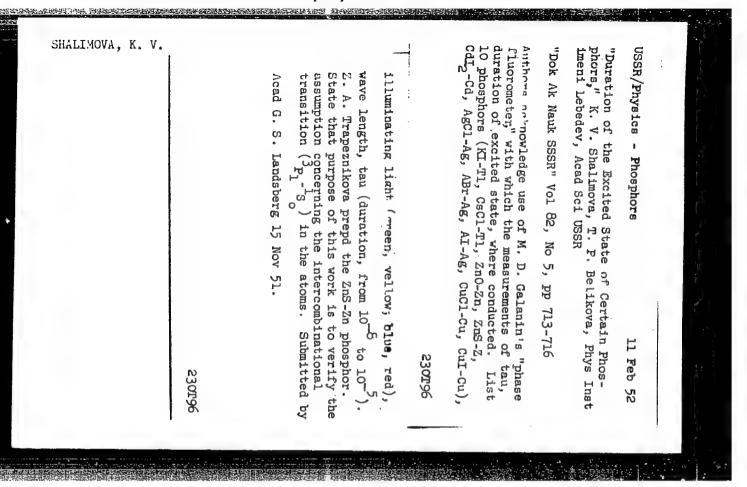
Fizicheskiy Institute im. P.N. Lebedeva Adademii Nauk SSSR. I Sibirskiy Fiziko-Tekhnicheskiy Institute

pri Tomskom Gosudarstvennom Universitete im. V.V., Kuybysheva, rcd. 12, Nov. 1951

SO: Monthly List of Russian Accessions, Library of Congress,

June

1952. **U**ncl.



USSR/Physics - Photoluminescence

FD-626

Card 1/1

WESTERN .. T. ..

: Pub. 146-16/18

Author

: Shalimova, K. V. and Mendakov, N. S. Burney and a second of the opening of a fine

Title

: Photoluminescence of the halide salts of copper

Periodical

: Zhur. eksp. i teor. fiz. 26, 248-253, February 1954

Abstract

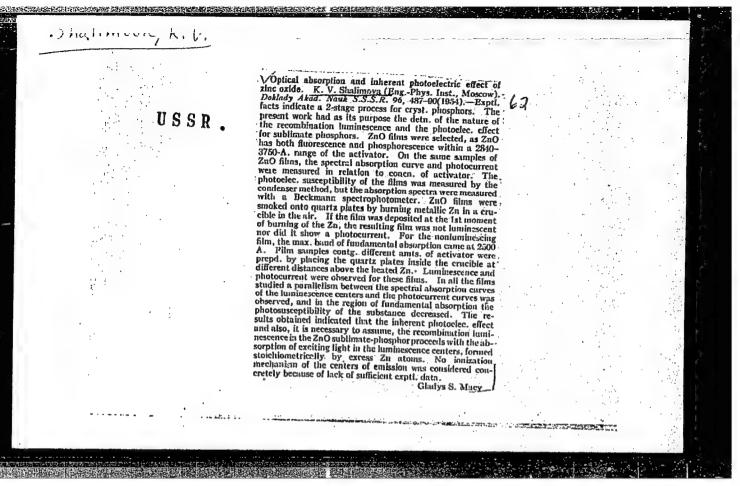
: The authors study absorption spectra and luminescence of halide salts of copper. It is shown that the luminosity of these salts is related to the surplus of copper above the stoichiometric compositon. The data obtained on the spectra support the supposition that the absorption and radiation of these salts is provoked by the passages of an electron between the energy levels of a surplus copper atom which

interacts with the field of a phosphor lattice.

Institution : Siberian Physicotechnical Institute, Tomsk State University

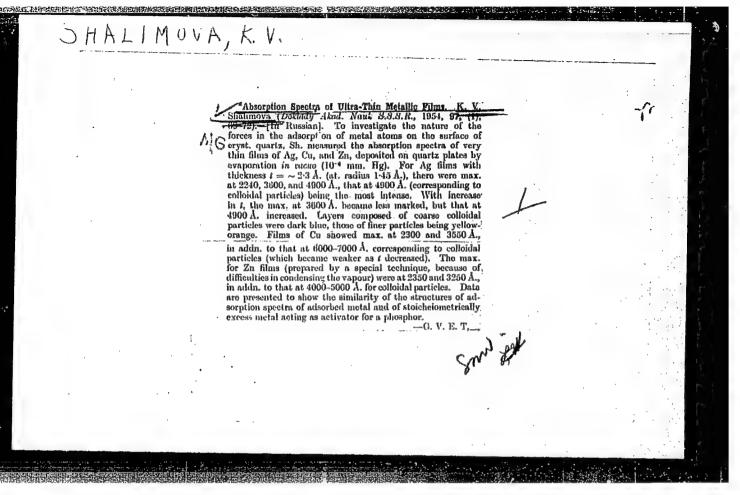
Submitted

: April 28, 53



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DMALLMUYA, K. V.

USSR/Physics

Card

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Authors

: Shalimova, K. V.

Title

g Effect of the inner-crystal lattice field of phosphorus on the electron levels of activators.

Periodical

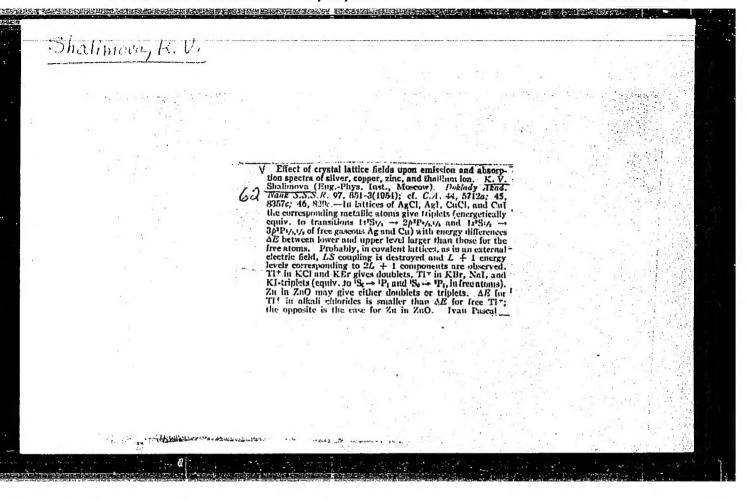
: Dokl. AN SSSR, 97, Ed. 3, 437 - 440, July, 1954

Abstract

? Reviews and analyzes experimental data, printed in scientific magazines, concerning the effect of an inner-crystal field of phosphorus lattice on electron levels of activators. Taking the results of the experiments as a base, makes some assumptions concerning the characteristics of the chemical bonds between the lattice of a luminophore and an activator, namely, that absorption and emission bands of the activator should be larger and wider. Photo-diagrams and tables. Twenty-three references (eight Russian).

Institution : Moscow Physical-Engineering Institute

Presneted by: V. N. Kondrat'ev, Academician



SHALIMOVA, K.V.; KARPENKO, I.V.

Optical absorption and internal photoelectric effect of cadmium sulfide. Nauch.dokl.vys.shkoly; radiotekh. i elektron. no.2:233-242 (MIRA 12:1)

1. Kafedra poluprovodnikovykh priborov Moskovskogo energeticheskogo instituta.

(Cadmium sulfide -- Optical properties)

24(4) AUTHORS: SOV/162-58-3-24/26 Shalimova, K.V., and Karpenko, I.V.

TITLE:

The Influence of Cadmium on the Electrical, Optical and Photo-Electrical Properties of Cadmium Sulfide (O vliyanii kadmiya na elektricheskiye, opticheskiye i photoelektricheskiye svoystva sul'fida kadmiya)

PERIODICAL:

Nauchnyye doklady vysshey shkoly, Radiotekhnika i elektronika, 1958, Nr 3, pp 176-183 (USSR)

ABSTRACT:

The authors investigated the light and dard conductances of CdS which are affected by the stoichiometric excess of Cd atoms for establishing an additional control of the conclusions concerning the light absorption and photoconductance of CdS, found in the visible range of the spectrum. The optical absorption of CdS has different values, depending upon the content of free Cd atoms. Further, a photo effect arises as a result of an ionization of excess Cd atoms when absorbing the excitation light. The authors conducted three series of experiments during their investigation. The first series of experiments

Card 1/3

SOV/162-59-3-24/26 The Influence of Cadmium on the Electrical, Optical and Photo-Electrical Properties of Cadmium Sulfide

was made for the determination of the heat influence on the photoconductivity of CdS. The second series of experiments dealt with the influence of radiation on the magnitude of photo-conductivity of CdS, whereby a PRK-4 mercury lamp was used. The third series of experiments explained the influence of metallic cadmium in the CdS lattice on the electrical and optical properties of the latter. The authors established that the electric conductance of CdS increases uninterruptedly with an increase of the metallic Cd concentration in its lattice, while the photosensitivity rises initially and decreases thereafter. CdS films containing a small amount of excess Cd atoms have a great light conductance, but a low dark conductance. CdS films having a sufficiently high number of excess Cd atoms have a lower light conductance, but show a considerable dark conductance. There are

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